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(54) **CONTROLLER OF VARIABLE LENGTH AIR INTAKE PIPE**

possible to widely improve the volumetric efficiency when the cam opens.

(57) Abstract:

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PURPOSE: To make it possible to utilize an inertia effect to the maximum extent all over a drive range by controlling an air intake pipe passage so that the pressure in an air intake pipe becomes maximum when an air intake cam opens.

CONSTITUTION: The pressure in an air intake pipe at the time when the cam of each air cylinder opens is subjected to averaging process by detecting the pressure in an air intake pipe at the time when a cam opens by way of sampling the output signals from an air intake pipe pressure sensor 22 provided in the vicinity of an air intake valve 9 in a corresponding cylinder with the signal of a cam open angle of the corresponding cylinder obtained from a crank angle detection sensor 25 and a cam angle detection sensor 28 as a trigger, in a controller 30. Thereafter, the air intake pipe length is changed by driving a stepping motor 19 so that the pressure in the air intake pipe becomes maximum. Consequently, as the pressure in the air intake pipe becomes high at the time when the air intake cam opens, a large amount of new air flows in so as to make it

